



DON'T FORGET SHUT-IN'S DAY
FIRST SUNDAY JUNE 5TH 1966
GOD LOVE YOU AND BLESS YOU
DELL LORIS COFFEE DAN BOX 40
RUTHVEN, ONTARIO, CANADA

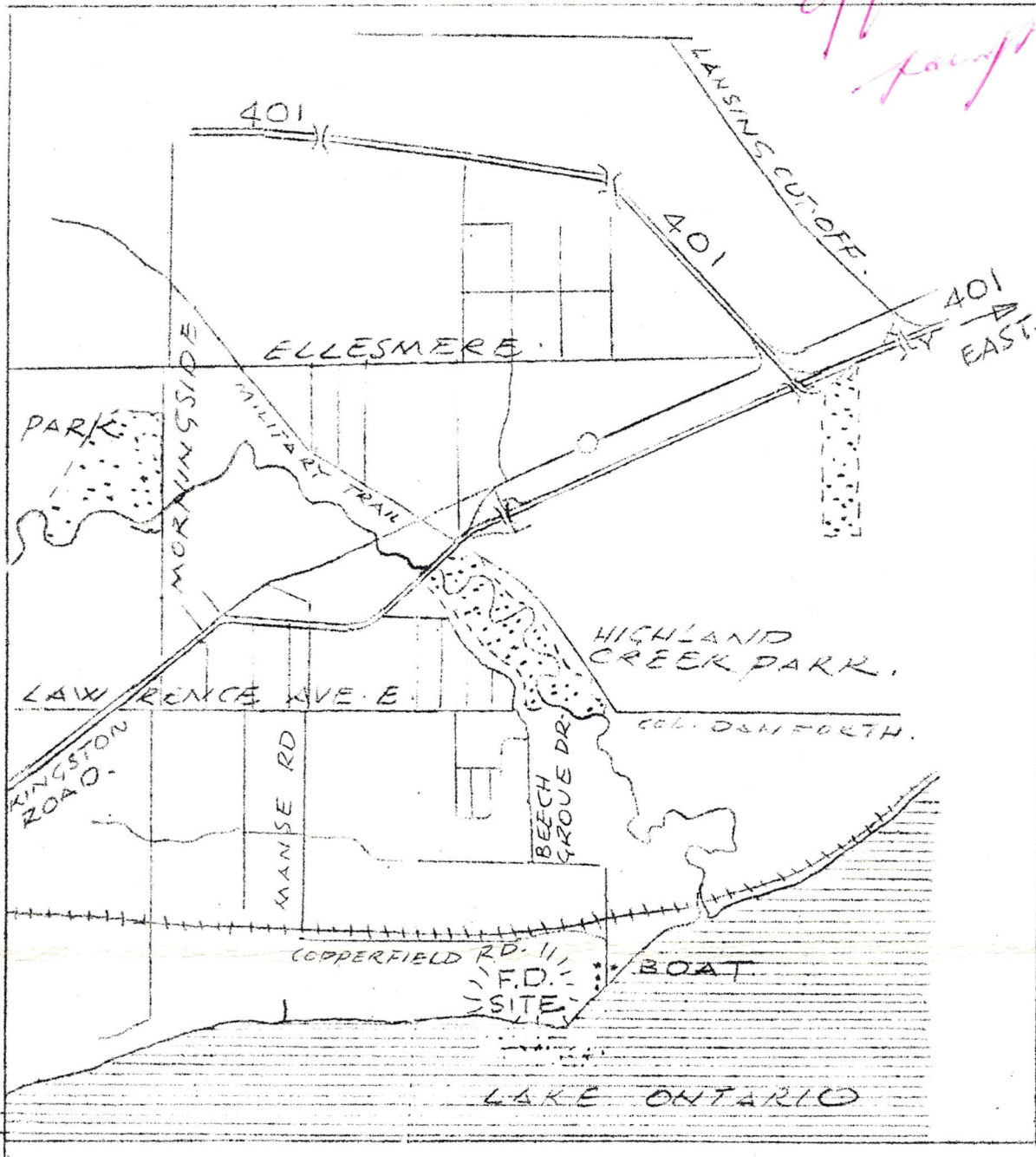
April-May
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Scarborough Amateur Radio Club

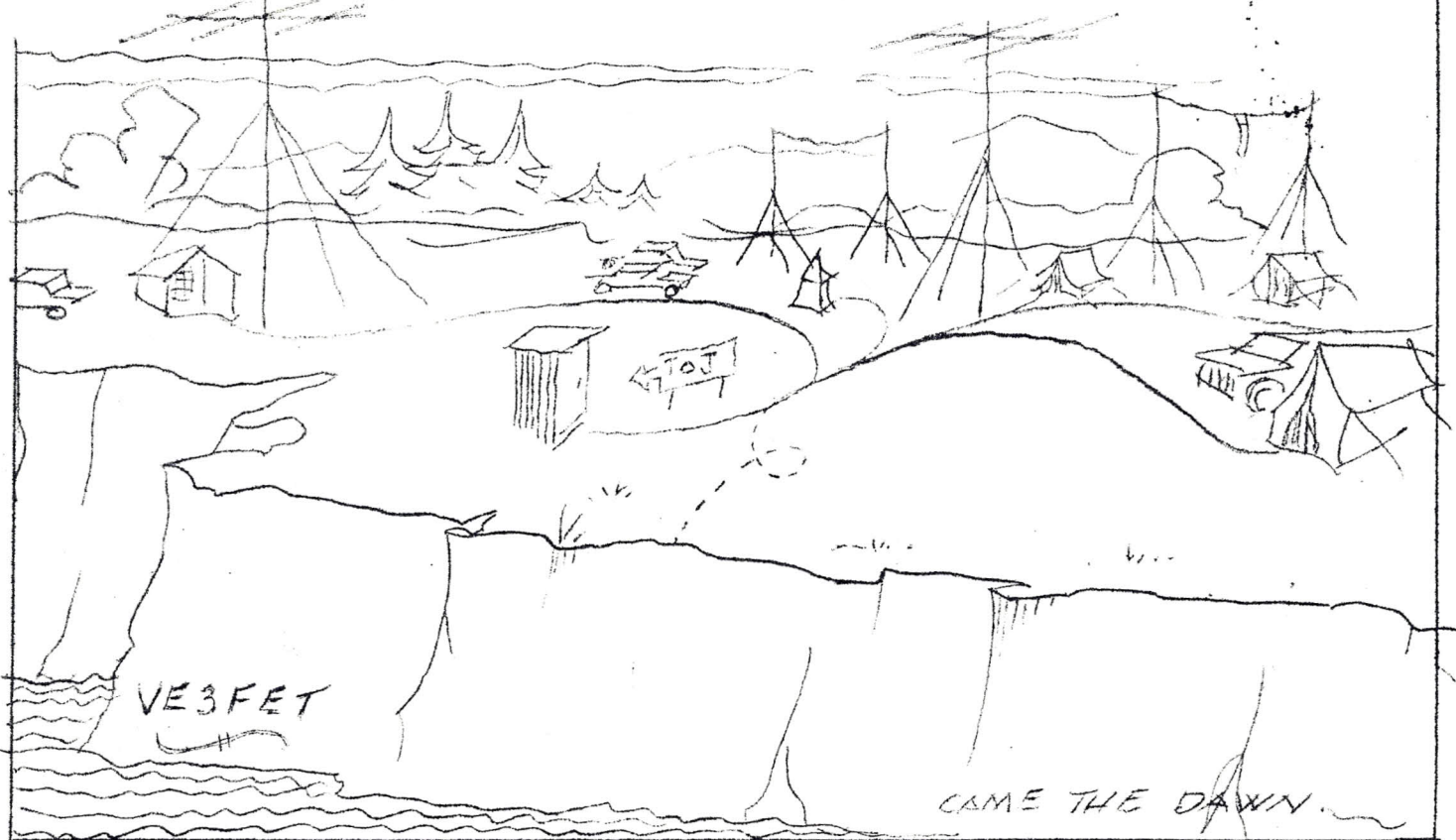
SPOT: 121
Apt. 404
Don Mills, Ont. Can.

443-8-57.7

Scarborough Amateur Radio
Club Inc. ARCHIVES



MAP SHOWING FIELD DAY SITE FOR SCARBOROUGH AMATEUR RADIO CLUB



SCARBOROUGH AMATEUR RADIO CLUB

" VE3WE CALLING "

Please address all exchange magazines, articles and news items to:
 Editor, Edwin Taylor VE3FRM, 121 Combermere Dr., Apt.404, Don Mills, Ont.

MEETING PLACE: CEDARBROOK COMMUNITY CENTRE, Markham Rd., South of Lawrence Ave. E. Scarborough Ont.
 MEETING TIME : 7:45 PM 2nd & 4th MONDAY of each Month Sept. to June inc.

- S.A.R.C. EXECUTIVE -

<u>PRESIDENT</u>	Bill Cate VE3HR 169 Harewood Ave. Scarb.	261-7728
<u>PAST PRESIDENT</u>	Norm Dickinson VE3BXM 88 Marchington Circle Scarborough	444-9029
<u>VICE PRESIDENT</u>	Steve Cody VE3BBC 41 Summer Dr., Scarborough	267-1073
<u>TREASURER</u>	Ed Charlton VE3FCE 35 Pharmacy Ave., Scarb.	691-2306
<u>SECRETARY</u>	Jim Ashfield VE3FOE 27 Whitefriars Dr. Don Mills	445-1211
<u>ASST. SECRETARY</u>	Lorne Somers VE3EIJ 64 Madras Cres. Scarb.	282-3993
<u>ASST. TREASURER</u>	Gord Steane VE3BMG 3800 Lawrence Ave. E. Scarb.	282-4353
<u>SOCIAL CONVENOR</u>	Clive Sutherland, 218 Ellington Dr. Scarb.	757-4336
<u>ENGINEERS</u>	Tom May VE3BYU 74 Adair Rd. Toronto 16	757-6546
	Jack Parsons VE3GAT 21 Woodgrove Dr. West Hill	284-1481
	Ron Mason VE3GAB 9 Valia Rd. West Hill	282-9215
<u>EDITOR</u>	Ed Taylor VE3FRM 121 Combermere Dr. Apt.404 Don Mills	444-0420

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ASST. EDITOR & ILLUSTRATOR Doris Taylor VE3FRN 121 Combermere Dr. Apt.404 Don Mills 444-0420
ASST. TYPISTS John McCorriston VE3DAY -- Thelma Woodhouse

- - -

- COLUMNISTS -

YL & XYL	Betty Peterson VE3ASZ	757-2189
WATTS NEW ON TWO	Ron Mason VE3GAB	282-9215
S.A.R.C. MEETINGS	John McCorriston VE3DAY	759-2520
A.R.E.C.	Syd Cole VE3FWA, Lorne Somers VE3EIJ	282-3993
FOR SALE	Norm Dickinson VE3BXM	444-9029

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CALL BOOK CUSTODIAN -- Bill Down VE3EPM 530 Kingston Rd. Apt 101 Toronto 13. 699-0565
 CLUB E.C. -- Lorne Somers VE3EIJ 64 Madras Cr., Scarborough. 282-3993
 CW CHAIRMEN -- Bill Cate VE3HR -- Cliff Smythe VE3EZO 293-4992

TO ALL CLUBS EXCHANGING NEWSLETTERS, PLEASE NOTE: our new QTH as of June 25th will be Cemetery Rd. R.R.#1 Uxbridge, Ont.



A WHISTLER is not a channel 9 T.V. series. It's an ultra low radio frequency emission -- in the frequency range from 300 to 15,000 cycles... naturally created by an unknown source or sources, not necessarily by visible lightning as was believed for a long time. The WHISTLER is so called because it sounds like a warble, or whistle....the sound rolling down the musical scale from 10kc in about one second.

The story of WHISTLERS starts way back in 1880 in Austria, when a scientist heard and made some notes about odd whistle like noises coming out of telegraph lines. Curiously, the paper in which he described the phenomenon didn't come to the attention of the scientific world until 1952. WHISTLERS were first actually recorded by a Bell Telephone scientist named Burton, in 1931 and 1932. (It might be noted that Mr. Burton was using an early model tape recorder--in which the tape was thin steel ribbon! He still has some of his recordings, which show quite reasonable quality inspite of the crude equipment.)

It was at the URSI meeting in Australia, in 1952, when L.R.O.Storey gave his now classic paper on the theory of WHISTLERS, that a Professor Morgan, attached to Dartmouth College's Thayer Engineering School, became interested in WHISTLERS and VLF phenomena. The Professor and his associates recorded and analyzed 2700 kinds of VLF signals. (Some go swish, some pop, and some make a sound like the fellows standing on the corner watching all the girls go by.) In order to study WHISTLERS more thoroughly, it was decided to generate one. Heading this project is Dr. Morgan, W1HDA. Accompanying Dr. Morgan are Mr. W.C.Johnson, W1FGO and Mr. B.Pratt W1RFP, as research associates, Mr. Sanderson W1VEG, technician, and in the early days, Dr. H.Curtis W1OKL, was actively engaged. At present, there is also D.Harlow W1ELJ, and L.Semprebon, K1UYH. Hence, hams are well represented in the group!

A transmitter at this frequency is no problem, but what about an effective radiator? Let's suppose you could build a half wave dipole (20 miles long), it would be, if suspended from a series of 50' telephone poles, the equivalent of a 20 meter antenna about a fifth of an inch off the ground.

The Slot antenna seemed to be the best answer to this problem. The Slot antenna which is, in essence, the reverse of the ordinary dipole concept is, by cutting a hole or placing an insulator in the middle of a large conducting surface, radio waves will be effectively radiated from the hole, or slot. Slot dimensions are comparable to normal dipole dimensions.

Dr. Morgan set about looking for a natural slot, in the area where WHISTLERS seem to emanate in great numbers, the South Atlantic. Deception Island seemed a most likely one. It's an extinct volcano just above the Antarctic Circle, north of the Palmer Peninsula. The island is shaped like a horseshoe and it's total length makes it just about resonant in the "WHISTLER BAND".

On Deception Island wires were laid from the center of the ridge to the sea in both directions. The ends of these were bared for 50 feet, a rock tied on, and 50 feet flung into the water. The wires were paralalled so that their impedance would not get into the act anymore than necessary. When the surge impedance was measured, it turned out to be amazingly close to 52 ohms!

P-3 OVER ON BACK!

It was there on Deception Island they set up "shop" to meet skeds with monitoring stations around the globe and so as to have an ending to this experiment, I wrote to Mr. Johnson who participated in this feat requesting any information he could give me. Here is an excerpt from his letter I received..... A transistorized kilowatt "transmitter", operating on 4, 6, and 8 khz, was used, powered by a gasoline generator and the output applied across the island nearly opposite the sea opening through 10 parallel #12 copper wires, spaced about 5 yards apart and fed in the center. For about a week, tests were carried out as time permitted, preliminary to operating the equipment on a programmed schedule. Using small boats and larger craft as they arrived, it was found that signals could be received some distance out at sea. Unfortunately, something unforeseen happened, just what we shall never know and all the transistors got fried and there were not enough good replacements at the Island to get going again. By then, we all were involved in the high altitude atomic tests in the Pacific and, except in conversation, the project has been largely ignored ever since. It could well happen that the tests will be resumed sometime in the future, but I don't know when.....

Mr. Johnson writes that in the March 1961 edition of QST, information was printed as to equipment for the reception of WHISTLERS.

There's still an enormous amount we don't know about these strange VLF signals, but what we do know can be summed up about as follows They are generated by unknown sources. So far, no man-made discharge beneath the ionosphere has been successful in producing a WHISTLER. Above the ionosphere, success has been quite high. Thunderstorms, and lightning discharges may have some connection with the causative discharge. The energy in the discharge is propagated in all directions, but that which goes along the magnetic field has an advantage -- losses are lower and the energy will return to the earth. When the energy reaches the other hemisphere and starts to penetrate the ionosphere, some may be reflected, some may be transmitted, but most is lost. That which comes thru the ionosphere can be detected on the ground as a WHISTLER. With luck some of that which is reflected will cruise back along the field and go through the same process at the originating area and might be detected on the ground there. Observations with the orbiting satellite observatories show that there is tremendously more activity above the ionosphere than below. Since the magnetic field extends out to several earth radii, the presence of WHISTLERS show that there is much more ionization in space than previously (previous to IGY, that is) thought.

The work of Dr. R. Helliwell, of Stanford, indicates that the path for WHISTLER activity is open most of the time. The fact that signals show a marked diurnal and seasonal variation would lead to the belief that it is the source which undergoes changes. Observations from the Injun and Alouette satellites confirm this.

Well, that just about wraps it up on the search for the cause of those elusive WHISTLERS! Many thanks to Mr. W. C. Johnson W1FGO, of the Thayer School of Engineering, Hanover New Hampshire, for his letters assisting me in compiling the necessary and up-to-date information for this article.

73, Ed Taylor VE3FRM.

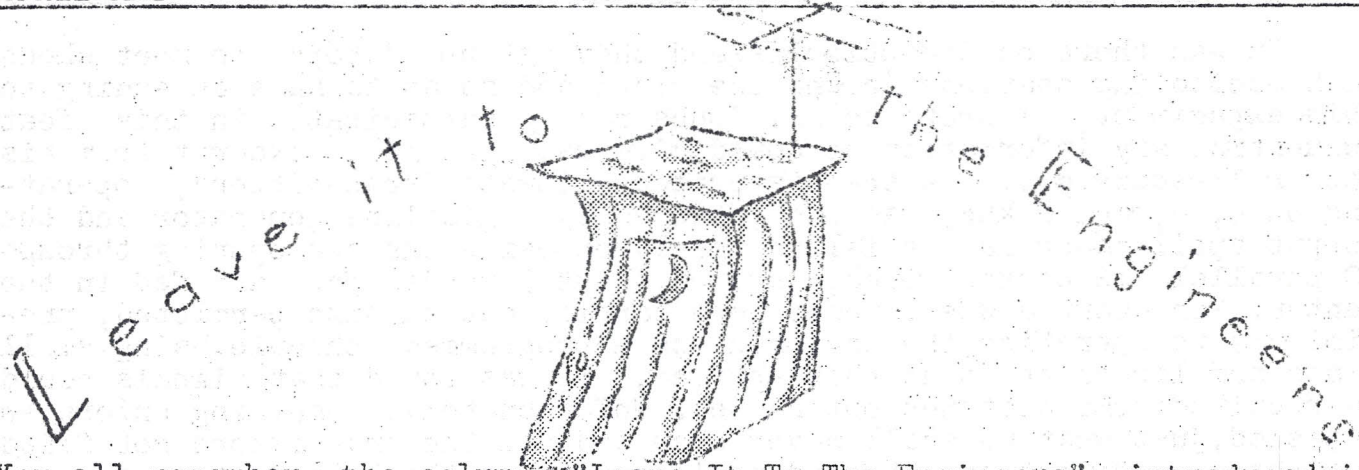
FROM VE-NEWS -- SASKATCHEWAN

Bill Parker VE5CU, President of the Saskatoon Amateur Radio Club, requests all Canadian amateurs to forward any documents, photographs, information on amateur radio in Canada. They are undertaking as a Centennial project to publish in book form, a history of amateur radio in Canada. All photographs and documents will be photocopied and returned promptly. Target date has been set at October 1966. Wilf Brown VE3AJ0 is in charge of any information possible from S.A.R.C. and will pass it along to the Saskatoon club. NOW IS THE TIME!

ALBERTA

The Centennial project of the Amateur League of Alberta will be to promote the formation of a National Organization of Canadian Amateurs.

KITCHENER-WATERLOO club suggests that various radio clubs in Ontario who have top rate speakers to address their meetings, put the talk on tape. These tapes could then be sent to other interested clubs.



You all remember the column "Leave It To The Engineers" introduced in the December issue. Well we finally got a letter for it and here is the questions with the answer from our most able Engineers.

QUESTION: - Can TVI from 2 meters be caused by harmonics entering the hydro wiring?

ANSWERS: - Tom May VE3BYU -- The harmonics from two meter transmitters fall outside of the VHF TV channels. The second harmonic being 238mhz and the uppermost freq. of channel 13 being 216mhz. There is the possibility of harmonic interference to UHF TV channels but this should not be a problem in this area.

The principal causes of 2 meter TVI would be: (a) from unused harmonics of the oscillator or multiplier stages. Eg. the 9th harmonic of 6mhz, and 7th harmonic of 8mhz in channel 2; 10th harmonic of 8mhz in channel 6; 7th harmonic of 25mhz stages in channel 7; 4th harmonic of 48mhz stages in channel 9 or 10 and many other combinations. This may include IF pickup as in the case of 24mhz interference in receivers having 21mhz IF systems and 48mhz trouble in 45mhz IF's.

(b) Image interference in channel 2 from 144mhz in receivers having a 45 mhz IF.

(c) Sound interference (picture usually clean) resulting from RF pickup by the audio stages of the TV receiver.

(a) is transmitter trouble and can generally be cleaned up by use of a HI pass filter. (b) and (c) are receiver faults and nothing can be done at the transmitter to eliminate them.

Ron Mason VE3GAB -- Yes it can, although its more often likely to be caused by RF getting through via the multiplier stages and the final. Good shielding is most important, proper choice of multiplier frequencies and correct use of B+ and heater filters. Sometimes just a capacitor is not sufficient. Use good RF filters on all leads entering the power supply & consult some of the many good publications on this subject.

QUESTION: - What would cause QRN on two twoers a short distance away, when both are on receive?

ANSWERS: - Tom May VE3BYU -- Yes; a twoer on receive will interfere with any other receiver near by and sometimes not so near by. The receiver uses a regenerative detector which is an amplifier on the verge of going into oscillation due to controllable feed back or regeneration. When it does go into oscillation, this signal is coupled directly to the antenna and thus is radiated.

Ron Mason VE3GAB -- The twoer is a wonderful box. However, its receiver is a regen type & therefore sends out its own oscillations when on receive. Some are worse than others depending on the antenna isolation. Not too much can be done at close range without major surgery, so build a simple converter and you will find it will really pay off.

QUESTION: - At 18 wpm on a straight key 1/16th spacing, what equivalent weight lifting would that be in one hour.

ANSWERS: - Tom May VE3BYU -- Many an KYL could think up better ways to use all that energy. hi hi.

Ron Mason VE3GAB -- Not enough info given for an accurate answer, but assuming the spring tension to be 10ozs, I get the answer to be close to a man lifting a 7lb weight up a distance of one foot.

Many tnx to Ron and Tom for coming up with the answers to the questions and I hope the letter writer who signed "you no Hoo" is satisfied.

Dear YLs and XYLs,



On April 2, 1966, our 20th Annual Banquet attracted a capacity attendance. Friendly reunions, good food, gifts for all, ragchewing, and dancing completed another successful event. Doris Taylor VE3FRN presented a lovely corsage of yellow roses to Pat Cate our President's XYL. Many thanks to Pat who selected and wrapped all the gifts for the ladies' Lucky Draw. Betty Stephans, the envy of all, was the lucky winner of the oil painting donated by our artist Eva Collecck VE3EVA while Thelma Woodhouse claimed the gemstone pendant by Betty VE3ASZ.

Why are Doris VE3BBO and Steve VE3BDC so happy these days? Well, they recently acquired their advanced tickets. Congratulations! We knew you could do it.

Elsie and Dan Schipper are very pleased with their new call letters --- Elsie VE3CBS and Dan VE3CIO. Congratulations to both and see you on the air soon.

We expect similar news from Thelma Woodhouse in the near future. Thelma recently became VE3TOT member #30.

Doris Taylor VE3FRN wants to get a 2-meter crystal frequency 3070kc. Do you have an extra one in your shack? Phone Doris: 444-0420..

Ivy VE3EZI announces a new VE3TOT 20-meter net on Saturdays beginning April 30 at 1600 gmt on 14140kc.

Doris VE3BBO, Ivy VE3EZI, and Jan VE3BII, will attend the mid-west YL Convention at Chicago in May and we will report the latest on this event in the next issue.

Our deepest sympathy to Gerry McCorriston whose mother passed away recently.

Until next month, 33 to all,

Betty Peterson, VE3ASZ.

The SCARBOROUGH AMATEUR RADIO CLUB are proud to announce the following persons who passed the Code and Theory examination for their Amateur Radio License. The plaques for successfully finalizing the Code and Theory Classes were presented to them at the 20th annual banquet.

John Gregory -- VE3ENW; Mrs. E. Schipper -- VE3CBS; D. Schipper -- VE3CIO; Donald Bunt -- VE3CYZ; Ladinir Kubes -- Call? Ron Kreiger -- VE3DLC; Ian Campbell -- VE3ENT; William Dunn -- Call? Harvey Wheetan -- Call?; John Roome -- VE3CWP.

There are 6 more who must try certain parts of the exam over again. To them we wish luck and to those listed above we give our congratulations. Welcome to the clan!

LETTERS TO THE EDITOR: From Sally Ranti VE2KO, Editor of the Montreal Club's "MARCOGRAM", comes this very nice letter.

Dear Ed & Doris-

I just wanted to drop you a card in congratulations on the fine job you're doing with "VE3WE CALLING". Of the bulletins I receive, it is certainly one of the best. Keep up the good work -- I hope to cu on the air sometime! 73, Sally Ranti, VE2KO Editor, Marcogram.

"I keep telling you people that we're indispensable, now maybe you will believe us." hi! Many thanks for the nice words, Sally, and coming from the Editor of the Marcogram it surely pays us a fine tribute.

Three cheers to those who have been contributing to the newsletter and to you, sitting on your fanny reading this - how about an article or something - even if it's just a report on you're activities for the past few months. C'mon fellas and gals - hop to it!

VE3WE CALLING will soon have a new cover which will be (I hope) a cluster of exciting, dramatic, and adventurous pictures of the Scarborough Club in action on Field Day and other events! Scenes such as Steve Cody fast asleep by his FD rig, Ed Vanatten scratching his right ear whilst slapping his keyer, and Bill Cate searching frantically for a mislaid prize upholding the tradition that everyone gets a prize on banquet night.

Listed below are some of the repeater stations operative or in their construction stages. On Sunday May 15, I heard quite a bit of activity through the Toronto repeater. Apparently the operation was organized in order to select a good location for the repeater. Some 16 stations were participating in the manouever, mostly mobiles. Ron Mason VE3GAB, our two meter columnist, has requested Al Lowry VE3AL to write us an article on the origination and use of the Toronto repeater.

INPUT	OUTPUT	LOCATION	CALL	OPERATIVE
146.40	146.33	Buffalo (new)		
146.34	146.94	Buffalo (orig)		
146.94	147.50	Montreal	VE2MT	*
146.50	146.94	Mont Gabriel	VE2ZO	*
146.46	146.94	Mount Orford		
146.46	146.94	Mount Mansfield Vt.	W1K00	*
146.46	146.94	Ottawa (not certain for freq.)		
146.46	146.94	Toronto	VE3RPT	*(may
146.50	146.94	Quebec		change due to
146.50	146.94	Three Rivers		interference)
146.22	147.24	St. Catherines		

Toronto requires mouth whistle to turn on filaments prior to use of repeater. There are no doubt more in this area but this is all I have info on at this time.

Tnx to Marcogram es Feedline.

SARCY CAMPAIGN!--In our Feb. issue appeared a letter from SARCY explaining a campaign he wished to sponsor. Enclosed in his letter I received a sealed envelope for the winner of the campaign. Here is a retype of the published article.

Please help me to get my S.A.R.C Club Certificate for working 25 S.A.R.C Members via C.W. only. Enclosed is a gift for the winner of this unofficial Club C.W. Campaign. This is unofficial, and it will be as much of a surprise to you as to the Exec. Remember this is for PAID UP S.A.R.C. MEMBERS as of March 1, 1966, ONLY. Everyone welcome to enter.

RULES - C.W. Mode - other than that, none really.

OBJECT - Now with the experience of the Club's NR contest behind us, this campaign is to promote C.W. activity and get club members acquainted with each other on the air.

TIME LIMIT - None really. - This campaign ends as soon as a club member has worked 25 other S.A.R.C. members. - There will be no JUDGE unless a tie is claimed and we hope not. Should a member work his 25th contact on March 7th at 2230 GMT, the CAMPAIGN is over -- But as a consolation to newer members with less experience, a mystery contact number will be used and the member who has worked that number of contacts at 2230 GMT, March 7th will get a consolation prize. So there is a good chance for all to have FUN, get some C.W. practice, experience and also a S.A.R.C. Club certificate.

How about it fellows & gals - give me a hand to get my S.A.R.C. club certificate. If you already have a club certificate, then try for your endorsement.

Remember, in this particular CAMPAIGN, all contacts must be made after Tuesday, March 1, 1966, 0001 GMT.

See you around 3650 Kcs. (9 - 10 P.M. EST.) 73, SARCY!

Ed. note -- I have retyped the above for those who are interested.

Listening around 3650 khz I have heard very few SARCY members and so hope that this retype of SARCY's CAMPAIGN will refresh your memory. NoOne yet has claimed the prize sent to me by SARCY. Call CQ there sometime -- you may be surprised.

FOR SALE: GLOBE SCOUT transmitter - 30 to 6 meters, phone and CW. CHEAP!
 See Ed Vanattan VE3FRR, TEL: 261-3040.

WANTED: Any schematics for transceivers, walkie talkies, or any battery operated portable rig for two meters. See Ed Taylor 444-0420.

Tom May VE3BYU, is looking for a small, light weight Tri-band beam such as a Thunderbird Jr. or similiar. Call Tom 757-6546.

ANY ITEMS FOR SALE? CALL EITHER MYSELF ED TAYLOR 444-0420 or NORM DICKINSON 444-9029.

MONDAY, MARCH 28, 1966.

About 65 were on hand to hear Dick Guy, VE3TT, give a very interesting talk on "TRAFFIC HANDLING." Dick was introduced and thanked by Bill VE3HR. Due

to the fact that Dick had agreed to speak at another Club we had the privilege of the main talk beginning at 8 p.m. Dick covered his subject in considerable detail and discussed writing out messages and the convenience of using printed message forms. For those interested in tuning in on C.W. Traffic Nets, the following info is included here: Grey-Bruce Net, Daily except Sunday, 2330 GMT, 3645 Kcs., about 12-15 WPM; Ontario-Quebec Net, Daily 0000 GMT, 3535 Kcs. about 15-18 WPM; Eastern Canada Net, Daily, 0045 GMT, 3540 Kcs. about 20-25 WPM; Eastern Area Net, Daily, 0130 GMT, 3670 Kcs., about 25 WPM.

Laurentian Phone Net, Daily Except Sunday, 3755 Kcs., 2345 GMT; and the Ontario Fone Net, Daily Except Sunday, 3770 Kcs. 0000 GMT, and the 2 Meter Net, every Wednesday night. If you wish further information on Nets, write A.R.R.L. Headquarters for Bulletin CD #50, which lists all Nets; CD #24, listing the ARRL National Traffic System.

Following the coffee break the meeting carried on as usual with the minutes etc. Steve Cody VE3BBC is Club Co-ordinator of the VE3WE Display at the C.N.E. this year, August 19 to Sept. 5th. A 7 week course on theory only is being organized by Sid Jefferies VE3CUJ, for those members seeking their advanced ticket. It was reported that S.A.R.C. Emergency Corps is composed of VE3EIJ, VE3DTV, VE3BBC, VE3GAB and VE3CWR.

The "Chalk Talker" for the evening was Jack Parsons, VE3GAT, who gave a rather informative talk on securing and using surplus type meters for various jobs around the shack, and monitoring circuits in one's equipment. Norm VE3BXM, reported that Roy Schoonover VE3EYN is temporarily located on Baffin Island and is operating with a VE8 call.

MONDAY, APRIL 11, 1966.

Spring must be coming, as only about 45 Members including three Visitors, Torben Frost, Brian Eaton and Ron Fitz VE3FBB, were on hand. Sid Jef-

feries VE3CUJ reported progress was being made with the 'Advanced Class.' The Sunday morning TWO Meter Net is apparently coming back to life -- six members called in on Sunday, April 10th. It was reported that the Banquet was a "sell-out" and everyone had a real enjoyable time -- complete details elsewhere, just a word of congratulations to our Social Convenor Clive Sutherland, and his many assistants for a reall fine do. Nice going Clive!

Chalk Talker for the evening was -- guess who? -- Bill VE3HR, can't say much about Bill for we all know him so well, and anyway where would the Club be without Bill? Bill gave a very good 'down to earth' talk to the newly licensed Members, on getting started properly in operating their stations! Congratulations to the following who stuck it out with Sid VE3CUJ and Cyril VE3FRZ and Norm VE3FRO, and came out on top with their license: Elsie Schipper VE3CBS; Dan Schipper VE3CIQ; Ross Dunn VE3DWU; Lloyd Kubis VE3ERQ; Ron Krueger VE3DLC and Don Brunt VE3CYZ, -- Nice going! Congrats to Ian Campbell, John Gregory and Harvey Wheaton who also passed the test but have not received their call letters yet!

Steve VE3BBC is anxious to gather up pictures and circuits of old spark gap rigs, in order to assemble an antique model for the C.N.E. Display this year -- Can YOU help him out? The lucky "FD" draw winners were Ross VE3DWU and Visitor Ron VE3FBB!

The feature speaker of the evening was none other than our own Tommy May VE3BYU, who gave a very interesting talk on "Inviron-mental Testing" of electronic gear, with examples from his personal experiences. Very interesting Tommy!

A CARD OF THANKS

John & Gerry McCorriston wish to thank the Members of the Scarborough Amateur Radio Club for their kind expression of sympathy and beautiful flowers sent at the time Gerry's mother (Mrs. P. Snyder) passed away recently.

SHUT-IN'S DAY, SUNDAY, JUNE 5, 1966.

This will be the 26th Anniversary of "The Shut-In's Day Association,"

which was originated through the efforts of one Amateur Radio enthusiast -- Ernie Barker, VE3AWI, of Goderich, Ont.

Remember Your Shut-In Friends or Neighbours this coming June 5th, and every day. For those too distant to visit a thoughtful card will do much to brighten their day!

"You cannot sprinkle the perfume of happiness upon others without spilling a few drops upon yourself."

Monday, May 9, 1966. About 60 were on hand. Gord Steane VE3BMG, read again the several amendments proposed to the Club Constitution. These were voted on and unanimously passed. The first was a change to Section 4. The financial year shall start October 1st and September 30th. The second was a change to Section 6. The annual elections shall be held at the first meeting in December and the elected Officers shall be installed to office at the first meeting in January.

Tom May VE3BYU, reported that the Field Day site will be at the same general area as last year. Plans are now in progress and if you are at all interested in participating in "FD" this year, now is the time to let the Club Engineers know. Considerable discussion took place regarding "FD" operators and equipment used. It was finally agreed that the present system is not too bad however some improvements can and should be made but it is up to the various band-leaders to enforce a little more discipline at their respective station if such is necessary. Sid VE3CUJ reported on the completion of the advanced theory classes and it is hoped that several more members will obtain their advanced license before long. Jack Parsons VE3GAT, volunteered to represent S.A.R.C. at the next Scarborough Centennial Committee meeting. Winners of the "FD" draw were: Harold Taylor, Dick Guy and Wilf Brown.

Congratulations to Doris VE3BBO and Steve VE3BBC, on obtaining their advanced tickets!

We were again very fortunate in having as main speaker of the evening our own Dick Guy VE3TT. Dick's topic was "Pepping up old receivers". Old receivers being considered as S38, S40, NC57 & BC348 etc. This was really an educational as well as a very entertaining talk by Dick. While there was no record kept, it appeared there was almost a laugh a minute, so all you members who missed this meeting really missed something worth while. Yes, there were many valuable hints and kinks passed out during the talk and discussion. You see it pays to attend S.A.R.C. Club meetings and participate in all club functions!

It was reported that several club members are becoming active on CW. Just to prove it VE3AST was seen passing out QSL cards to VE3FET and VE3FFB (where were you Stu?). Maybe someone is trying hard to win that little CW campaign advertised in the February 1966 VE3VE CALLING, but which apparently never got off the ground as all CW operators disappeared after the Club CW Novice Round-Up Contest -- remember that Club activity?!!!

73, John McCorriston, VE3DAY.

S.A.R.C. NOVICE ROUNDUP CONTEST!

1st VE3FTF Gunther Achleitner -- 105 by 10 = 4,200
\$3.00 prize and certificate. Also the trophy.

2nd VE3FCE Ed Charlton -- 88 by 10 = 3,520 -- \$2.50 prize.

3rd VE3EYC Cliff Smythe -- 80 by 10 = 3,200 -- \$2.50 prize.

The 13 logs handed in were: (not necessary in order of points)
VE3AST, Cliff Peterson; VE3BBO, Doris Cody; VE3BBC, Steve Cody; VE3AQN, Ian Mac Farquer; VE3DGB, Ted McRae; VE3GBP, Rick Bushnell; VE3DAY, John McCorriston; VE3ASZ, Betty Peterson; VE3HR, Bill Cate; VE3FRM, Ed Taylor

Three names were drawn from the logs handed in and a \$2.00 prize awarded Betty Peterson, VE3ASZ; Doris Cody, VE3BBO; Ed Taylor, VE3FRM.

We hope to be running a picture in one of the future editions, of Gunther receiving his trophy at the Banquet. The trophy was made by Ed Charlton VE3FCE, and Jim Ashfield VE3FOE and donated to the Club as an exclusive Club Award for the Novice Roundup. It is a very beautiful trophy showing excellent workmanship and is a fine incentive to enter the contest when it rolls around again.

Cliff Smythe was showing me a letter he received from a novice contestant, thanking the advanced amateur for participating and giving valuable operating experience to the new amateur. Many letters like it were printed in last month's QST. So not only are you trying for an award or trophy but also you are helping fellow amateurs who are trying to upgrade themselves. Let's see a 100% turnout next year!

FIELD DAY -- A KALEIDASCOPE -- by Dick Guy VE3TT.

Mosquitoes. Cross-modulation in your receiver. Sore feet. A fouled plug in the generator. Phone splatter. Aspirins. Getting the message off. Key clicks. Band leaders. Folding chairs. SSB. Hot coffee. Cold beer. Sleeping bags. High SWR. Poison ivy. CQ FD. 5-7-9 Ont. Low line voltage. High line voltage. Voltage surges.

Blisters. Burns. Cuts. Bruises. Blood. Sweat. Tears. Erecting tents. Raising antennas. Wind. Raising the antennas again. Mud. Stuck cars. Running out of gasoline. Heat. Cold. Contacts. Canned food. Smiles. Scowls. Swearing. Whistling. Misery. Happiness. Shiny towers. Beat notes. Logging. Stretched antennas.

FD chairman. Break-in operation. Uneven table tops. Soldering irons. "Which way is true north?" Trying to get some sleep. Trying to keep awake. Hot chocolate. Receipts for expenditures. Cows. Cars. Cans. Unforeseen difficulties. Dipoles. Improvisation. Gas fumes. Climbing towers. Bug repellent. Hetrodynes. Co-ax cable.

Pandemonium when the generator stops. "You're 5 by 9 in the Ontario section". Fancy circuits. Tried and true circuits. Lost logging sheets. Dits. Friday night. Clocks. Antenna poles. Dahs. Fellowship. Competition. A game. Preparedness. Easy. Tough. Radio black-outs. Power black-outs. People black-outs.

Inverted VeEs. VHF. Power group. Harmonics. Match-boxes. Painfulness. Bliss. Microphones. Sand in your sandwiches. Foot switches. Organization. Chaos. Coca-Cola. Running out of cigs. VE3VE/3. "Where is the toilet?" Corn flakes and sour milk. Smooth operating. Rough conditions. QRM. Contentedness. Desperation.

Co-ax connectors. Walking. Blown fuses. Over size fuses. Blown transformers. Insects. Transceive operation. "Thank God it's all over for another year". Reflectometers. Climbing trees. Halitosis. Plastic tape. A good time. A lousy time. Thermos jugs. CW. Sunday afternoon. Shredded flashlights. Joy. Bitterness.

"Break-Break-Break". Water cans. Taking pictures. Earphones. Co-operation. Reluctance. Transmitters. Intergration. Disintetration. Operating. Batteries. Stumbling over guy wires at night. Safety matches. Verticles. Keyers. Overmodulation. Standby units. "How many have you got now?" Hell. Heaven. Insulators. AM fone.

Logging. Kinks in the antenna wire. 29.5 watts. Learning by doing. Trailers. Ladder line. A stuck antenna rotator. Hot soup. Pencils. Extended double Zepp. CQ Field Day. Madness. Ingenuity. Hamburgers. Visitors. Irritation. First Aid Kit. Fans. Body odour. Perseverance. Receivers. A sticking antenna relay.

Monkey chatter. 149.5 watts. "Never again". Check sheets. Gas stoves. Stale bread. Yagis. Transistor radios. Spilled coffee on the logging sheet. Tower sections. Dead bands. Duplicate QSOs. Spare pair of clean socks. Rain. Sun. Stars. Evening. Dawn. "Wait until next year".

Field Day is a TOTAL experience that no real amateur ever passes up. Don't miss it this year. See you on the week end of June 24-25-26?

Meanwhile, very 73, Dick VE3TT.

INDIAN PRAYER

GREAT SPIRIT -

De L.A.R.C.

Grant that I may not criticise my neighbour until I have walked a mile in his moccasins.

THE OLD PHILOSOPHER

De W.A.R.C.

QRM is a round table discussion that does not include you.

Alimony is the same as paying instalments on your transmitter after the final has gone soft.

Memory is what tells a ham he had a sked yesterday.

Personal Comfort Guide:

FULL TIME PARTICIPATION

Cup, bowl, plate, (preferably plastic)

Knife, fork, spoon.

Dishtowel or paper towels.

Toilet soap, Face towel.

Toothpaste and brush.

Wash basin.

Flashlight.

Raincoat, rubbers.

Mosquito lotion, bug bomb.

Food, Campstove, pots, pans.

Water for drinking and washing.

Folding Cot or Air Mattress

Portable cooler with ice and soft drinks

Clean rags or cloths

Electric fan

Folding chair

Set of small hand tools

Fire extinguisher CO2 preferred but box of baking soda OK.

Ashtrays. Garbage disposal bag.

FIRST AID KIT

Tent, ropes, poles, etc.

Table for rigs.

* Since the bands are divided into groups, it should be discussed with your group what items above will be needed since duplication of some items would be unnecessary.

STATION EQUIPMENT GUIDE: A complete integrated station, antenna, featuring push to talk or VOX for phone, and break-in for CW is desirable. CW station should have monitoring or a keyed tone oscillator.

CW Equipment

Complete antenna system.

Hand key, lead and plug.

2 pairs earphones, suitable loudspeaker.

Antenna coupler.

Reliable CW receiver.

Reliable VFO Xmtr. Either 29.5 watts, or 149.5 as 2nd choice.

(requires 50% more qso's for same score)

TR switch, or antenna switch.

Phone Equipment

Complete antenna system.

Desk type microphone.

2 pairs earphones, suitable loudspeaker.

Antenna coupler.

Reliable SSB or AM receiver.

Reliable VFO-SSB-or AM Xmtr with either 29.5 watts or 149.5 2nd choice

TR switch or antenna switch.

Modulation indicator for AM.

Mechanical clock; Multiple outlet cube taps; Flashlight; Ashtray; Pens; Pencils; Scratch pad of paper; Erasers; Table lamp (40 watts).

*Again many of these items will be drawn up amongst the participants of a Band group.

*This list is a reprint regarding Field Day of bygone years but should come in handy for 66. -- Submitted by Dick Guy, VE3TT.

OFFICIAL BULLETIN NR 52 FROM ARRL HEADQUARTERS
NEWINGTON CONN MARCH 25 1966 TO ALL RADIO AMATEURS BT

Now is the time for individuals as well as clubs and groups in the ARRL Field Organization to begin formulating plans for the ARRL Field Day, June 25 and 26. This annual test of emergency gear should prove particularly challenging this year. For the first time, a spirit of field day bonus will be offered for furtherance of at least two of the basic objectives of accurate traffic handling, good public relations and complete operation under emergency power. Full reporting forms are now available without charge from the ARRL Communications Department, 225 Main Street, Newington, Connecticut 06111. Please state the number needed AR

Help stamp out QRM -- Destroy your license!

Recently I wrote a letter to Syd Cole, VE3FWA requesting info on A.R.E.C locally and offered the use of this newsletter to further the enrolment and publicise any moves by the A.R.E.C. in the Metro area. Syd has accepted the offer and we hope that an A.R.E.C. column will be in each month's issue.

Thanks very much for your kind offer of space in your club paper for the Amateur Radio Emergency Corps. I certainly would like to take advantage of the opportunity to contact the members of the Scarborough Amateur Radio Club.

I should start by making it plain that I do not intend to suggest that all amateurs should enlist in an "emergency program" that would require a lot of their time, (and mine, too).

However, I know that most amateurs take some pride in their ability to communicate and what good is this ability if it cannot be put to use in a time of emergency?

We may be able to hold a good "exercise" once in a while, - if there is sufficient interest - but A.R.E.C. has not been exactly active in Metro Toronto area, and there is a need for some organizational work before we can get involved in the fun and games.

I would like to have an Assistant Emergency Coordinator in each of the clubs in the Metro area. He would provide the liaison I need with the clubs, and would meet with the other AECs and myself to occasionally discuss A.R.E.C. matters. The Assistant E.C. would look after the enrollment of members of his club in A.R.E.C. and in a few months we should be able to show the rest of the country what a well organized group of amateurs can do.

73, Syd Cole VE3FWA E.C.

Lorne Somers VE3EIJ, has been elected our club's E.C. and will be an AEC representing our club to the E.C. for Metro Toronto, Mr. Syd Cole. It is hoped that we will hear from them on any advancements of A.R.E.C. via an active column in this newsletter. If you are at all interested in emergency operating contact: Lorne Somers VE3EIJ, 64 Madras Cr. Scarborough. Phone: 282-3993. Let's make a big thing of this, get a move on!

FOR SALE -- sponsored by Doris Cody VE3BBO.

Tri band beam - best offer (just what you need Tom)

Beam rotor - best offer -- Variac - \$15.00

Antenna tuner consisting of the following parts:-

1-10 TVL B&W Coil

1-10 BVL B&W coil

1-20 TVL B&W Coil

(home-made) \$12.00

1-80 TVL B&W Coil

1-20 TVL B&W Coil

HQ-110c Hammerlund receiver - \$240.00 -- C2 Frequency meter - \$12.00

DX-35 Heathkit transmitter - \$35.00 -- VF-1 Heathkit VFO - \$15.00

Contents of Station of VE3DBR -- Please Contact Mrs. Margaret Edwards, 47 Laxford Ave. Scarborough, Ontario. Phone: Plymouth 7-7967

WANTED - MORE ITEMS FOR SALE -- Call either myself ED TAYLOR 444-0420 or NORM DICKINSON 444-9029 - 88 Marchington Circle Scarborough.

VE-NEWS, a monthly newsletter compiled by Rowland Beardow VE3AML, for the benefit of amateurs across Canada, is now available to the general amateur for their own private study at a trifle \$1.00 for 8 months. Send to: Rowland Beardow VE3AML, 1899 Lakeshore Rd. Sarnia, Ont. A very fine publication with much interesting info for the Canadian amateur.

DON'T FORGET FIELD DAY - 66' -- NOTIFY THE ENGINEERS IF YOU WISH TO PARTICIPATE! DO IT NOW! LET'S BRING HOME THE TROPHY FOR 66'!

WELL FOLKS THATS IT FOR ANOTHER MONTH! WE MISSED LAST ISSUE DEADLINE AND LATE WITH THIS BECAUSE OF HOUSE SHOPPING. HOPE TO HAVE AN ISSUE OUT FOR JUNE AND IT WILL BE THE LAST UNTILL SEPTEMBER. DON'T FORGET THE CLUB PICNIC THIS AUGUST! YOU WILL GET A NOTIFICATION IN THE MAIL. ALSO IN AUGUST IS THE C.N.E. DISPLAY! GET IN TOUCH WITH STEVE CODY VE3BBC, AND TELL HIM WHEN YOU CAN PARTICIPATE AT THE BOOTH! STEVE DID A FINE JOB LAST YEAR AND IT TOOK A LOT OF WORK, SO GIVE HIM A CALL. PITCH IN AND HELP! LASTLY!--DON'T FORGET FIELD DAY! CALL TOM MAY VE3BYU, 757-6546, TO MAKE ARRANGEMENTS FOR YOUR PARTICIPATION IN FIELD DAY! THE SITE IS THE SAME AS LAST YEAR. BRING ALONG SOME POISON IBY LOTION!

The banquet was a big succes this year and a big thanks to Clive Sutherland for making it so! Everyone had something to take home including the memory of a very nice time. Many thanks to all those who helped in some way or other to make it such a succes!

From Tom May VE3BYU, comes this last minute info: Band Leaders for F.D. are 80 CW - Cliff Peterson; 75 phone - Saltus Jones; 40 CW - Bill Cate; 40 phone - Bill Down; 10m - Dennis Wilton; 2m - Lorne Somers. There are many more openings so get in touch now with Tom!

Bill Down is in charge of the club CALL BOOK so if you would like a few calls looked up phone Bill at 699-0565! Any more than two, please send a list with S.A.S.E. to Bill Down VE3EPM, 530 Kingston Rd., Apt. 101, Scarborough. Bill has the latest up-to-date CALL BOOK and has been running this service for some time!

Thanks to Dick Guy VE3TT, for writting 20yrs of S.A.R.C. for the back of the menu for us. It took a good deal of research and phone calling. Thankyou to Betty Peterson VE3ASZ, who came over the night before the banouet and helped Doris to assemble the menu. Till midnight I beleive!

Congratulations to Doris and Steve Cody on obtaining their Advanced License! Steve,3BBC, now has a Hallicrafters Electronic Keyer! Doris,3BBO along with Jean Evans 3DGG, and Ivy, 3EZI, just returned from a trip to Chicago where they were present at the Mid-West YL Convention! T'was a great experience and if you take a peek at the Trillium's latest news-letter, TOT-TOPICS, you will read a humorous summary of the trip, by Ivy VE3EZI. Ivy is now operating on 15 meters, I hear.

Ted McRae VE3DGB, has set aside his DXing to study for his final exams. Ted has a long list of countries worked and all on 40 CW too!

Ed Vanattan VE3FRR, is now taking advantage of shift work by racking up a big score on 20 CW, at it's prime hours! Ed is contemplating 10meters.

Jan Van-Dommelen VE3DTV, can be heard during rush hour on 2 meter mobile 144.144mhz. Jan is now assembling a 40 CW station.

Ron Mason VE3GAB, has baught a home in Claremont Ont. TVI Ron?

Syd Sakanashi VE3FNS, is 2 meter FM. Syd is still waiting for the parts of his beam to arrive from the states. The beam received some damage during a storm last winter. Syd was receiving TVI reports even before he had the beam operating last fall.

Doris & I FRN & FRM, are moving to Uxbridge on the 25th of June. So there goes field day down the drain again, last year we were on vacation during field day. Got a new house with an old barn. Think I'll start up a pig farm. OINK! New QTH -- Cemetary Rd. RR1 Uxbridge. Don't use it until after June 25th! Got a two meter rig here especialy to contact club members and get news for the news-letter. Do you think I hear any? Nope! My lowest xtal is 144.65mhz so give a listen there fellas or call around 144.144mhz, I monitor there all the time when typing up this news-letter. Still running skeds into Avenel New Jersey with my powerful little five watter. Getting FB signal reports too. 40 meter CW, that is. Next fall I will run a schematic of this rig in the news-letter. It's a jim-dandy!

Ron Mason has a nice little tunable two meter converter and I will try to talk him into a construction article on it too.

1	Achleitner Gunther	VE3FTF	102 Goodwood Park Ct. Apt. 714	Toronto 13	691-5527
	Anderson Gary	VE3DJB	R.R.#1, Markham (Box Grove)		294-1122
	Ashfield James B.	VE3FOE	27 Whitefriars Dr.	Don Mills	445-1211
	Bailey Charles		34 Craiglee Dr.	Scarboro	267-8036
5	Bate Richard Herbert		30 Norway Ave.	Toronto 8	691-6460
	Beesley Sydney	VE3FAQ	7 Fielding Ave.	Toronto 6	466-7624
	Benham George		205 Rexleigh Drive	Toronto 16	755-2772
	Bentley Charles		22 Euclid Ave.	Highland Creek	282-2427
	Bowman John	VE3FYA	70 Par Avenue	Scarboro	282-2990
10	Brackpool Cyril T.L.	VE3FRZ	54 Christina Cr.	Scarboro	444-2092
	Brown Wilf	VE3AJO	91 Dunnington Drive	Scarboro	691-7826
	Bunt Donald	VE3CYZ	57 Bennington Hts. Dr.	Toronto 17	425-2080
	Bushnell Rick	VE3GBP	2 Neville Park Blvd.	Toronto 13	699-6948
	Campbell Ian	VE3ENT	115 Bowmore Rd.	Toronto 8	461-5233
15	Cate Bill	VE3HR	169 Harewood Avenue	Scarboro	261-7728
	Chapman John	VE3EWU	66 Parkwoods Village Dr. Apt. 506	Don Mills	444-8815
	Chapman Ken W.		46 Aldridge Avenue	Toronto 6	461-7707
	Charlton Ed	VE3FCE	35 Pharmacy Avenue	Scarboro	691-2306
	Clark George		17 Brantwood Drive	Scarboro	293-2573
20	Cody Doris R.	VE3BBD	41 Summer Drive	Scarboro	267-1073
	Cody Stephen R.	VE3BBC	41 Summer Drive	Scarboro	267-1073
	Colleck Eva	VE3EVA	27 Flerimac Road	West Hill	284-1764
	Colleck Barney	VE3MB	27 Flerimac Road	West Hill	284-1764
	Crimless Murray	VE3GAD	190 Silverbirch Avenue	Toronto 13	699-0386
25	Curtis Reg. A.		17 Murray Avenue	Agincourt	293-4579
	Dickinson Norm	VE3BXM	88 Marchington Circle	Scarboro	444-9029
	Dirken Hendricus	VE3FPD	54 Ainsdale Road	Scarboro	759-2388
	Down Bill	VE3EPM	530 Kingston Rd. Apt. 101	Toronto 13	699-0565
	Drake Gerald	VE3BLN	3 Janet Blvd.	Scarboro	755-4697
30	Drake Helen	VE3BLW	3 Janet Blvd.	Scarboro	755-4697
	Dunn Ross		50 Avonmore Square	Scarboro	261-2771
	Ford Gil	VE3AEZ	29 Larwood Blvd.	Scarboro	261-3067
	Foster Wm.		46 Horfield Avenue	Scarboro	266-2263
	Gendron Frank		5 N. Alarton	Malton	
35	Gienuez Stan		158 Painted Post Dr.	Scarboro	291-1255
	Gorcey Norman	VE3FRD	101 Haslam Street	Scarboro	
	Gregory John	VE3ENW	1555 Birchmount Rd. Apt. 308	Scarboro	757-2113
	Guy Dick	VE3TT	97 Wexford Blvd.	Scarboro	755-2372
	Hill Arthur	VE3FNH	28 Woodfield Road	Toronto 8	465-8668
40	Hodges William	VE3FSR	1 Neston Avenue	Scarboro	267-8639
	Hughes William	VE3CEY	14 Emmeline Crescent	Agincourt	293-6620
	Jarvie James J.	VE3BFC	650 Broadway Ave.	Toronto 17	425-3929
	Jefferies Sid	VE3CUJ	8 Noreen Drive	Scarboro	755-6705
	Jones Saltus	VE3CWR	23 Stamford Square S.	Scarboro	757-0573
45	Karach John		2444 Gerrard St. East	Toronto 13	694-3826
	Kreger Ronald	VE3DLC	30 Zenith Drive	Scarboro	266-1888
	Krebs Ernest J.		81 Mountland Drive	Scarboro	282-0549
	Kubis Lloyd		493 Brimorton Drive	Scarboro	
	Larendowicz Jan		88 Glen Davis Crescent	Toronto 13	699-4135
50	Lawford Wessley		131 Glenmore Road	Toronto 8	691-6900
	Leach Eric W.	VE3CVW	72 Gaiety Drive	Scarboro	267-8411
	Lowry Al	VE3AL	30 Colin Avenue	Toronto 7	489-4150
	MacFarquhar Ian	VE3AQN	110 Flora Drive	Scarboro	755-4041
	Mason Ronald	VE3GAB	9 Valia Road	West Hill	282-9215
55	May Thomas J.	VE3BYU	74 Adair Road	Toronto 16	757-6546
	McCorriston Gerry		12 Glaive Drive	Scarboro	759-2520
	McCorriston John	VE3DAY	12 Glaive Drive	Scarboro	759-2520
	McDermott Terence		27 Amulet Street	Agincourt	293-0194
	McEachern Don		31 Amberjack Blvd.	Scarboro	291-1364
60	McRae Ted	VE3DGB	74 Lilian Drive	Scarboro	755-3672
	Millar Murray	VE3BIJ	R.R.#3, Carrying Place, Ontario.		
	Miller Don	VE3DRI	20 Woodvale Road	Scarboro	261-4983
	Miller Ivan	VE3FAZ	723 Midland Avenue	Scarboro	261-1107
	Mitchell Gordon		79 Confederation Drive	Scarboro	261-9812
65	Montemurro William		11 Flempton Cr.	Scarboro	759-3629
	Nash Robert	VE3BHS	53 Kingslake Road	Willowdale	221-7197
	Ohnmacht John	VE3JE	782 Scarboro Golf Club Rd.	Scarboro	284-5110
	Parsons Jack	VE3GAT	21 Woodgrove Drive	West Hill	284-1481
	Pearson Reg.		6 Denvale Road	Toronto 16	755-6794
70	Peterson Betty	VE3ASZ	19 Innismore Crescent	Scarboro	757-2189
	Peterson Cliff	VE3AST	19 Innismore Crescent	Scarboro	757-2189
	Polack A. Leonard	VE3BEA	154 Dewhurst Blvd.	Toronto 6	466-8098
	Provis Edgar		26 Fielding Avenue	Toronto 6	466-7320
	Purdy Ron	VE3GAN	56 Hazelwood Avenue	Toronto 6	466-8926

75	Purens John		921 Midland Ave. Apt. 703	Scarboro	267-6481
	Ross George		2 Milepost Pl. Apt. 214, Thorncliffe Pk. Leaside		421-1591
	Roome John	VE3CMP	21 Greenock Avenue	Scarboro	282-7551
	Sakanashi A. Sidney	VE3FNS	83 Brooklawn Avenue	Scarboro	261-1598
	Sexton Phillip C.		14 Glen Robert Drive	Toronto 16	757-1516
80	Schipper Dan	VE3CIQ	62 Wantanopa Crescent	Scarboro	293-5794
	Schipper Elsie	VE3CBS	62 Wantanopa Crescent	Scarboro	293-5794
	Simpkin John		44 Innisdale Drive	Scarboro	757-5593
	Smith Dick		117 Mossbank Drive	Scarboro	282-4794
	Smith T. Jack	VE3GCC	Camp of the Creek, Plover Rd.	Scarboro	282-7251
85	Smythe Cliff	VE3EZO	70 Castle Hill Drive	Agincourt	293-4992
	Smythe Ivy	VE3EZI	70 Castle Hill Drive	Agincourt	293-4992
	Somers Joan	VE3ENJ	64 Madras Crescent	Scarboro	282-3993
	Somers Lorne	VE3EIJ	64 Madras Crescent	Scarboro	282-3993
	Sorensen Barney		34 Orchard Park Drive	West Hill	282-1028
90	Spinelli John		14 Northfield Road	Scarboro	282-7654
	Steane Gordon	VE3BMG	3800 Lawrence Ave. East	Scarboro	282-4353
	Steane Jean		3800 Lawrence Ave. East	Scarboro	282-4353
	Stephens Art	VE3YS	9 Marilyn Avenue	Agincourt	293-3495
	Stephens Betty		9 Marilyn Avenue	Agincourt	293-3495
95	Strang Fred		85 Crosland Drive	Scarboro	444-2189
	Sutherland Clive		218 Ellington Drive	Scarboro	757-4336
	Taylor Doris	VE3FRN	121 Combermere Drive Apt. 404	Don Mills	444-0420
	Taylor Edwin	VE3FRM	121 Combermere Drive Apt. 404	Don Mills	444-0420
	Taylor Harold		25 Salome Drive	Agincourt	293-4569
100	Theisen Ole	VE3FST	51 Armitage Drive	Scarboro	447-1328
	Tooke Barry		145 Benleigh Drive	Scarboro	293-7866
	Tribbeck Ray	VE3FET	4 Bankwell Avenue	Scarboro	282-4097
	Vanattan Ed	VE3FRR	11 Fareham Crescent	Scarboro	261-3040
	Vandeyck Bob		104 Yardley Avenue	Toronto 16	757-6724
105	Van-Dommelen Jan	VE3DTV	49 Jarwick Drive	Scarboro	291-1760
	Ward Jim		30 White Birch Road	Scarboro	699-1301
	Watson R.M. "Bob"	VE3FSW	52 Michael Drive	Willowdale	222-5137
	Werneth Norbert	VE3DSB	250 Ferris Road	Toronto 16	755-1326
	Wheaton Harvey A.		16 Noganosh Road	Scarboro	
110	Wilton Dennis	VE3FEE	125 Euclid Avenue	West Hill	282-5450
	Woodhouse Thelma		44 Innisdale Drive	Scarboro	757-5593
	Wylie Bill	VE3FBL	6 Tweed Crescent	Scarboro	755-6984
	Zimmerman		15 Canham Crescent	Scarboro	293-6351

* * * * *

* CALL LETTER CROSS REFERENCE *

* * * * *

VE3AEZ	Gil Ford	VE3DAY	John McCorriston	VE3FPD	Hendricus Dirken
AJO	Wilf Brown	DGB	Ted McRae	FRM	Edwin Taylor
AL	Al Lowry	DJB	Gary Anderson	FRN	Doris Taylor
AST	Cliff Peterson	DLC	Ronald Kreger	FRQ	Norman Gorcey
ASZ	Betty Peterson	DRI	Don Miller	FRR	Ed Vanattan
AQN	Ian MacFarquhar	DSB	Norbert Werneth	FRZ	Cyril Brackpool
BBC	Steve Cody	DTV	Jan Van-Dommelen	FSR	William Hodges
BBD	Doris Cody	EIJ	Lorne Somers	FST	Ole Theisen
BEA	Leonard Polack	ENJ	Joan Somers	FSW	Bob Watson
BFC	James Jarvie	ENT	Ian Campbell	FTF	Gunther Achleitner
BHS	Robert Nash	ENW	John Gregory	FYA	John Bowman
BIJ	Murray Miller	EPM	Bill Down	GAB	Ronald Mason
BLN	Gerald Drake	EVA	Eva Collecck	GAD	Murray Crimless
BLW	Helen Drake	EWU	John Chapman	GAN	Ron Purdy
BMG	Gordon Steane	EZO	Cliff Smythe	GAT	Jack Parsons
BXM	Norm Dickinson	EZI	Ivy Smythe	GBP	Rick Bushnell
BYU	Tom May	FAQ	Sydney Beesley	GCC	Jack T. Smith
CBS	Elsie Schipper	FAZ	Ivan Miller	HR	Bill Cate
CEY	William Hughes	FBL	Bill Wylie	JE	John Ohnmacht
CIQ	Dan Schipper	FCE	Ed Charlton	MB	Barney Collecck
CMP	John Roome	FEE	Dennis Wilton	TT	Dick Guy
CUJ	Sid Jefferies	FET	Ray Tribbeck	YS	Art Stephens
CVW	Eric Leach	FNH	Arthur Hill		
CWR	Saltus Jones	FNS	Sydney Sakanashi		
25 CYZ	Donald Bunt	FOE	Jim Ashfield		

NAME.....CALL.....

QTH.....PHONE NR.....

BANDS + MODE OPERABLE.....

.....

.....

MOBILE?.....WHAT BANDS?.....

TIME MOST ACTIVE.....

.....

CAN YOU OPERATE WEEKDAYS?.....

CLASS OF LICENSE.....

REMARKS:

PLEASE cut, fill out this form and mail or bring it to the Editor, Ed. Taylor at your earliest convenience. It's for our records and your benefit. Remember after June 25th, our new QTH will be: Cemetary Rd. RR-1 Uxbridge. If you return this form - we have a small gift for you with the complements of Al Pearsall, VE3QS.

CALL LETTER CROSS REFERENCE:

VE3AEZ	GIL FORD	D.Y	JOHN MCCORRISTON	FPD	HENDRICUS DIRKEN
AJO	WILF BROWN	DGB	TED McRAE	FRM	EDWIN TAYLOR
AL	AL LOWRY	DJB	GARY ANDERSON	FRN	DORIS TAYLOR
AST	CLIFF PETERSON	DLC	RONALD KREGER	FRG	NORMAN GORCEY
ASZ	BETTY PETERSON	DRI	BON MILLER	FRR	ED VANATTAN
AON	IAN MACFARQUHAR	DSB	NORBERT WERNETH	FRZ	CYRIL BRACKPOOL
BBC	STEVE CODY	DTV	JAN VAN DOMMELEN	FSM	WILLIAM HODGES
BBO	DORIS CODY	BIJ	LORNE SOMERS	FST	OLE THEISEN
BEA	LEONARD POLACK	ENJ	JOAN SOMERS	FSW	BOB WATSON
BFC	JAMES JARVIE	ENT	IAN CAMPBELL	FTF	GUNTHER ACHLEITNER
BHS	ROBERT NASH	ENW	JOHN GREGORY	FYA	JOHN BOWMAN
BIJ	MURRAY MILLER	EPM	BILL DOWN	GAB	RONALD MASON
BLN	GERALD DRAKE	EVA	EVA COLLECK	GAD	MURRY CRIMLESS
BLW	HELEN DRAKE	EWU	JOHN CHAPMAN	GAN	RON PURDY
BMG	GORDON STEANE	EZC	CLIFF SMYTHE	GAT	JACK PARSONS
BXM	NORM DICKINSON	EZI	IVY SMYTHE	GBP	RICK BUSHNELL
BYU	TOM MAY	FAQ	SYDNEY BEESLEY	GCC	JACK T. SMITH
CBS	ELSIE SCHIPPER	FAZ	IVAN MILLER	HR	BILL CATE
CEY	WILLIAM HUGHES	FBL	BILL LYLIE	JE	JOHN OHNMACHT
CIQ	DAN SCHIPPER	FCE	ED CHARLTON	MB	BARNEY COLLECK
CMP	JOHN MOORE	FEE	DENNIS WILTON	TT	DICK GUY
CUJ	SID JEFFERIES	FET	RAY TRIBBECK	WE	S.A.R.C.
CVW	ERIC LEACH	FNH	ARTHUR HILL	YS	ART STEPHENS
CMR	SALTUS JONES	FNS	SYDNEY SAKANASHI		
CYZ	DONALD BUNT	FOE	JIM ASHFIELD		

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